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HOWREY SIMON ARNOLD & WHITE, LLP BOX 34 301 RAVENSWOOD AVE. MENLO PARK, CA 94025  RECEIVED  ARTUNIT PAPER NUM  JUN 1 0 2003	APPLICATION NO,	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
HOWREY SIMON ARNOLD & WHITE, LLP BOX 34 301 RAVENSWOOD AVE. MENLO PARK, CA 94025  JUN 1 0 2003  EXAMINER  YOUNG, JOSEPHINE  ARTUNIT PAPER NUM	10/082,998 02/21/2002		Benjamin R. Yerka	03678.0102.CPUS00	3186
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JUN 1 0 2003 ARTUNIT PAPER NUM			YOUNG, JOSEPHINE		
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			JUN 1 0 2003	1623	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Docket Department						
File						
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Due Date	07-04-03					
W/Ext's	12-04-03					
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4-2005 09:17am From-	T-538 P.007/020 F-631					
Office Action Summan.	10/082,998	YERXA ET AL				
Office Action Summary	Examiner	Art Unit				
	Josephine Young	1623				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be evailable under the provisions of 37 CFR 1.135(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on	·					
2a) ☐ This action is FINAL. 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) 1-20 Is/are pending in the application.						
4a) Of the above daim(s) is/are withdrawn from consideration.						
5) ☐ Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-20 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)						
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(s)						

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

4) Interview Summary (PTO-413) Paper No(s), \_\_\_\_
5) Notice of Informal Patent Application (PTO-152
6) Other.

Notice of Informal Patent Application (PTO-152)

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1, 3, 5 and 8-9, drawn to compounds of Formula I, wherein A is an amino acid, peptide or polypeptide, and compositions with such compounds, classified in class 536, subclasses 25.6, 26.1, 26.2<sup>+</sup>.
- II. Claims 1, 3, 5, 8-9, drawn to compounds of Formula I, wherein A is a oligonucleotide or a polynucleotide, and compositions with such compounds, classified in class 536, subclasses 25.6, 26.1, 26.2<sup>+</sup>.
- III. Claims 1, 3, 5 and 8-9, drawn to compounds of Formula I, wherein A is a natural or non-natural steroid, and compositions with such compounds, classified in class 536, subclasses 25.6, 26.1, 26.2<sup>+</sup>.
- IV. Claims 1-9, drawn to compounds of Formula I, wherein A is OR<sub>1</sub>, SR<sub>1</sub> or NR<sub>1</sub>R<sub>2</sub>, such that OR<sub>1</sub> and SR<sub>1</sub>, are not OH and SH, classified in class 536, subclasses 25.6, 26.1, 26.2<sup>+</sup>.
- V. Claims 1-9, drawn to compounds of Formula I, wherein A is CR<sub>1</sub>R<sub>2</sub>R<sub>3</sub>, classified in class 536, subclasses 25.6, 26.1, 26.2<sup>+</sup>.
- VI. Claims 10-15 and 17-19, drawn to methods of preventing, diagnosing or treating retinal tissue diseases or dry-eye disease using a compound of Group I, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.

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- VII. Claims 10-15 and 17-19, drawn to methods of preventing, diagnosing or treating retinal tissue diseases or dry-eye disease using a compound of Group II, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- VIII. Claims 10-15 and 17-19, drawn to methods of preventing, diagnosing or treating retinal tissue diseases or dry-eye disease using a compound of Group III, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- IX. Claims 10-15 and 17-19, drawn to methods of preventing, diagnosing or treating retinal tissue diseases or dry-eye disease using a compound of Group IV, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- X. Claims 10-15 and 17-19, drawn to methods of preventing, diagnosing or treating retinal tissue diseases or dry-eye disease using a compound of Group V, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XI. Claims 10-13, 16 and 19, drawn to methods of preventing, diagnosing or treating respiratory diseases using a compound of Group I, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XII. Claims 10-13, 16 and 19, drawn to methods of preventing, diagnosing or treating respiratory diseases using a compound of Group II, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XIII. Claims 10-13, 16 and 19, drawn to methods of preventing, diagnosing or treating respiratory diseases using a compound of Group III, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.

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- XIV. Claims 10-13, 16 and 19, drawn to methods of preventing, diagnosing or treating respiratory diseases using a compound of Group IV, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XV. Claims 10-13, 16 and 19, drawn to methods of preventing, diagnosing or treating respiratory diseases using a compound of Group V, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XVI. Claims 10-13 and 19, drawn to methods of preventing, diagnosing or treating epithelial diseases that are not retinal/dry-eye or respiratory diseases using a compound of Group I, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XVII. Claims 10-13 and 19, drawn to methods of preventing, diagnosing or treating epithelial diseases that are not retinal/dry-eye or respiratory diseases using a compound of Group II, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XVIII. Claims 10-13 and 19, drawn to methods of preventing, diagnosing or treating epithelial diseases that are not retinal/dry-eye or respiratory diseases using a compound of Group III, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XIX. Claims 10-13 and 19, drawn to methods of preventing, diagnosing or treating epithelial diseases that are not retinal/dry-eye or respiratory diseases using a compound of Group IV, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.

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- XX. Claims 10-13 and 19, drawn to methods of preventing, diagnosing or treating epithelial diseases that are not retinal/dry-eye or respiratory diseases using a compound of Group V, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52
- XXI. Claim 20, drawn to methods of preventing or treating diseases associated with platelet aggregation and thrombosis using a compound of Group I, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XXII. Claim 20, drawn to methods of preventing or treating diseases associated with platelet aggregation and thrombosis using a compound of Group II, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XXIII. Claim 20, drawn to methods of preventing or treating diseases associated with platelet aggregation and thrombosis using a compound of Group III, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XXIV. Claim 20, drawn to methods of preventing or treating diseases associated with platelet aggregation and thrombosis using a compound of Group IV, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.
- XXV. Claim 20, drawn to methods of preventing or treating diseases associated with platelet aggregation and thrombosis using a compound of Group V, classified in class 514, subclasses 44, 45<sup>+</sup>, 48, 49<sup>+</sup>, 51, 52.

Claims 1, 3, 5 and 8-9 link Groups I-III and will be examined together with the Group that is elected as it pertains to the elected invention. Claims 1-9 link Groups IV and V and will be examined together with the Group that is elected as it pertains to the elected invention.

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Claims 10-19 link Groups VI-XX and will be examined together with the Group that is elected as

it pertains to the elected invention. Claim 20 links Groups XXI-XXV and will be examined

together with the Group that is elected as it pertains to the elected invention.

The inventions are distinct, each from the other because of the following reasons:

Groups I-V are unrelated. Inventions are unrelated if it can be shown that they are not

disclosed as capable of use together and they have different modes of operation, different

functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different

inventions are directed to compounds with patentably distinct different functional groups. The

compounds and compositions of Group I are directed to nucleotide compounds that are

substituted with an amino acid, peptide or polypeptide group. The compounds and compositions

of Group II are directed to nucleotide compounds that are substituted with an oligonucleotide or

a polynucleotide. The compounds and compositions of Group III are directed to nucleotide

compounds that are substituted with a natural or non-natural steroid. The compounds and

compositions of Group IV are directed to nucleotide compounds that are substituted with an

OR<sub>1</sub>, SR<sub>1</sub> or NR<sub>1</sub>R<sub>2</sub> moiety, such that OR<sub>1</sub> and SR<sub>1</sub>, are not OH and SH. The compounds and

compositions of Group I are directed to nucleotide compounds that are substituted with a carbon

based moiety of the formula CR<sub>1</sub>R<sub>2</sub>R<sub>3</sub>. The compounds/compositions of one do not render

obvious the compounds/compositions of the other.

Groups I-V are related to Group VI-X as product and process of use. Similarly, Groups

I-V are related to Group XI-XV as product and process of use. Groups I-V are related to Group

XVI-XX as product and process of use. Groups I-V are related to Group XXI-XXV as product

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and process of use. The inventions can be shown to be distinct if either or both of the following

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can be shown: (1) the process for using the product as claimed can be practiced with another

materially different product or (2) the product as claimed can be used in a materially different

process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed

can be used in a materially different process of using that product, such as the processes of one

of the other Groups, Groups VI-X, Groups XI-XV, Groups XVI-XX or Groups XXI-XXV.

Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP §

Groups VI-X, Groups XI-XV, Groups XVI-XX and Groups XXI-XXV are unrelated.

806.04, MPEP § 808.01). In the instant case the different inventions are directed to methods

socially the management of the interest of the

with patentably distinct effects. The methods of Groups VI-X are directed to the prevention,

diagnosis or treatment of retinal tissue diseases or dry-eye disease, which is patentably distinct

from methods of preventing, diagnosing or treating respiratory diseases, as per Groups XI-XV,

which is patentably distinct from preventing, diagnosing or treating epithelial diseases that are

not retinal/dry-eye or respiratory diseases, as per Groups XVI-XX, which is patentably distinct

from methods of preventing or treating diseases associated with platelet aggregation and

thrombosis, as per Group Groups XXI-XXV. The methods of one do not render obvious the

methods of another.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and their recognized divergent subject matter, restriction for examination purposes as indicated is proper. A reference for one group could not reasonably be expected to be a reference for another. Further, searching all of

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the inventions constitutes a burdensome search, as a thorough search comprises a search of

foreign patents and non-patent literature, as well as the appropriate U.S. patent classifications.

To search the twenty-five independent and distinct inventions, set forth supra, would indeed

impose an undue burden upon the examiner in charge of this application.

Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even if the requirement is traversed (37 CFR 1.143).

Election of Species

If one of Groups I-III is elected, Applicant is required under 35 U.S.C. 121 to elect a

single disclosed species for prosecution on the merits to which the claims shall be restricted if no

generic claim is finally held to be allowable. Currently, the claims are generic to a plurality of

disclosed patentably distinct species such that each species is directed to compounds of Formula

I or compositions with such compounds, wherein

• X<sub>1</sub>, X<sub>2</sub> and X<sub>3</sub> are independently one of the following distinct moieties: an oxygen, a

carbon based moiety or a nitrogen based moiety;

the sum of m+n+p is 0, 1, 2, 3, 4 or 5;

• D is either O or CH<sub>2</sub>;

• Y and Z are independently one of the following distinct moieties:

H or OH

OR

at least one of Y and Z is independently one of the following distinct moieties:

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- (A) —OR<sub>4</sub> and/or —OR<sub>5</sub> that are independently a compound of the Formula II, such that the moiety defined according to Formula II is an ether;
- (B) -OR4 an and/or -OR5 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is an acyclic acetal or ketal;
- (C) -OR4 and/or -OR3 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is a carbamate or thiocarbamate; or
- (D) -OR4 and/or -OR3 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is a carbonate, thiocarbonate, cyclical carbonate or cyclical thiocarbonate;

OR

Y and Z are taken together and are one of the following distinct moieties:

- (E) OR<sub>4</sub> and -OR<sub>5</sub> that are together a compound of the Formula III, such that the moiety defined according to Formula III is an acetal or ketal; or
- (F) OR₄ and -OR₅ that are together a compound of the Formula III, such that the moiety defined according to Formula III is a cyclical orthoester;

## AND

• B' is either a purine of general formula IV or a pyrimidine of general formula V.

If Groups IV is elected, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no

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generic claim is finally held to be allowable. Currently, the claims are generic to a plurality of disclosed patentably distinct species such that each species is directed to compounds of Formula I or compositions with such compounds, wherein

- X<sub>1</sub>, X<sub>2</sub> and X<sub>3</sub> are independently one of the following distinct moieties: an oxygen, a
   carbon based moiety or a nitrogen based moiety;
- the sum of m+n+p is 0, 1, 2, 3, 4 or 5;
- D is either O or CH<sub>2</sub>;
- Y and Z are independently one of the following distinct moieties:

H or OH

OR

at least one of Y and Z is independently one of the following distinct moieties:

- (A) -OR4 and/or -OR5 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is an ether;
- (B) -OR4 an and/or -OR5 that are independently a compound of the Formula Π, such that the moiety defined according to Formula Π is an acyclic acetal or ketal;
- (C) —OR4 and/or —OR3 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is a carbamate or thiocarbamate; or
- (D) —OR4 and/or –OR5 that are independently a compound of the Formula Π, such that the moiety defined according to Formula Π is a carbonate, thiocarbonate, cyclical carbonate or cyclical thiocarbonate;

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OR

Y and Z are taken together and are one of the following distinct moieties:

(E) OR4 and -OR5 that are together a compound of the Formula III, such that the moiety defined according to Formula III is an acetal or ketal; or

(F) OR4 and -OR5 that are together a compound of the Formula III, such that the moiety defined according to Formula III is a cyclical orthoester;

• B' is either a purine of general formula IV or a pyrimidine of general formula V;

A is either (A) OR<sub>1</sub> or SR<sub>1</sub> or (B) NR<sub>1</sub>R<sub>2</sub>;

AND

R<sub>1</sub> or R<sub>1</sub>/R<sub>2</sub> selected from the following patentably distinct moieties: (A) hydrogen, alkyl,
 cycloalkyl or taken together to form a cycloalkyl ring; (B) aryl, arylalkyl or taken
 together to form an aryl ring; (C) a phosphonate and (D) an acylthioalkyl.

If Groups V is elected, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, the claims are generic to a plurality of disclosed patentably distinct species such that each species is directed to compounds of Formula I or compositions with such compounds, wherein

- X<sub>1</sub>, X<sub>2</sub> and X<sub>3</sub> are independently one of the following distinct moieties: an oxygen, a
   carbon based moiety or a nitrogen based moiety;
- the sum of m+n+p is 0, 1, 2, 3, 4 or 5;
- D is either O or CH<sub>2</sub>;

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• Y and Z are independently one of the following distinct moieties:

H or OH

OR.

at least one of Y and Z is independently one of the following distinct moieties:

- (A) -OR4 and/or -OR5 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is an ether;
- (B) -OR4 an and/or -OR5 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is an acyclic acetal or ketal;
- (C) —OR4 and/or —OR5 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is a carbamate or thiocarbamate; or
- (D) -OR4 and/or -OR5 that are independently a compound of the Formula II, such that the moiety defined according to Formula II is a carbonate, thiocarbonate, cyclical carbonate or cyclical thiocarbonate;

OR

Y and Z are taken together and are one of the following distinct moieties:

- (E) OR4 and -OR3 that are together a compound of the Formula III, such that
  the moiety defined according to Formula III is an acetal or ketal; or
- (F) OR₄ and -OR₂ that are together a compound of the Formula III, such that the moiety defined according to Formula III is a cyclical orthoester;
- B' is either a purine of general formula IV or a pyrimidine of general formula V;

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AND

each R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are independently selected from the following patentably distinct

moieties: (A) hydrogen, alkyl, cycloalkyl or taken together to form a cycloalkyl ring; (B)

aryl, arylalkyl or taken together to form an aryl ring; (C) a phosphonate and (D) an

acylthioalkyl.

If one of Groups VI-X, XI-XV, XVI-XX or XXI-XXV is elected, Applicant is required

under 35 U.S.C. 121 to elect a single disclosed species wherein each species is a method of using

a compound with a patently distinct compound, as set forth supra, for prosecution on the merits

to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the

species that is elected consonant with this requirement, and a listing of all claims readable

thereon, including any claims subsequently added. An argument that a claim is allowable or that

all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of

claims to additional species which are written in dependent form or otherwise include all the

limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

the election, applicant must indicate which are readable upon the elected species. MPEP §

809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct,

applicant should submit evidence or identify such evidence now of record showing the species to

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be obvious variants or clearly admit on the record that this is the case. In either instance, if the

examiner finds one of the inventions unpatentable over the prior art, the evidence or admission

may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Josephine Young whose telephone number is (703) 605-1201.

The examiner can normally be reached on Monday through Friday, 9:00 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, James O. Wilson can be reached at (703) 308-4624. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 305-3014 for regular

communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1235.

JΥ

June 3, 2003

TIAMES O. WILSON

EXISORY PATENT EXAMINER

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